

SURFACE MOUNT GLASS PASSIVATED **HIGH EFFICIENCY RECTIFIER**

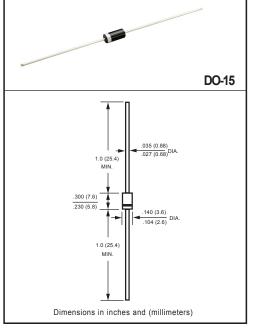
VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High reliability
- * High current surge

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.4 gram



REV:D

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	HER201G	HER202G	HER203G	HER204G	HER205G	HER206G	HER207G	HER208G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 50°C	Ι _Ο	2.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60								Amps
Typical Current Squared Time	I ² T	14.9							A ² S	
Typical Thermal Resistance (Note 1)	R _{θJL}	10								°C/W
Typical Thermal Resistance (Note 1)	R _{θJC}	15								°C/W
Typical Thermal Resistance (Note 1)	RθJA	40								°C/W
Typical Junction Capacitance (Note 2)	CJ	30 20							pF	
Operating Temperature Range	TJ	150							٥C	
Storage Temperature Range	T _{STG}				-55 to	o + 150				°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

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CHARACTERISTICS	SYMBOL	HER201G	HER202G	HER203G	HER204G	HER205G	HER206G	HER207G	HER208G	UNITS	
Maximum Instantaneous Forward Voltag	VF	1.0 1.3			1.6		Volts				
Maximum Average Reverse Current	@T _A = 25°C	I _R	0.5							μA	
at Rated DC Blocking Voltage	$@T_A = 100^{\circ}C$	'K					65				μA
Maximum Reverse Recovery Time (Note 4) trr				50 75							nSec
NOTES: 1. Thermal Resistance: At 9.5	OTES: 1. Thermal Resistance: At 9.5mm lead length, PCB mounted. 2								2021-06		

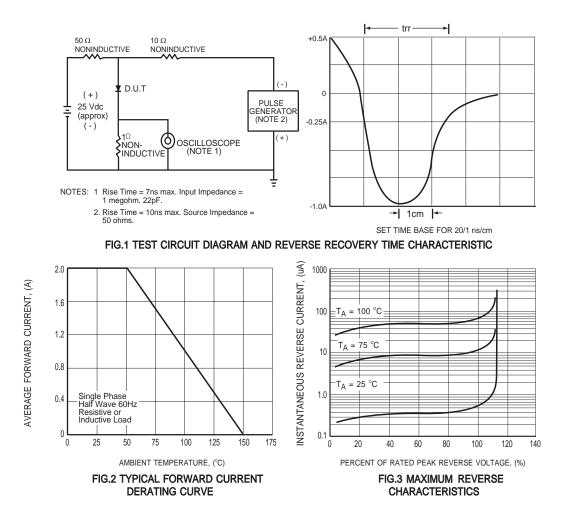
1. Thermal Resistance : At 9.5mm lead length,PCB mounted. 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. NOTES :

3. "ROHS compliant"

4. Test Conditions: IF= 0.5A, IR= -1.0A, IRR= -0.25A.

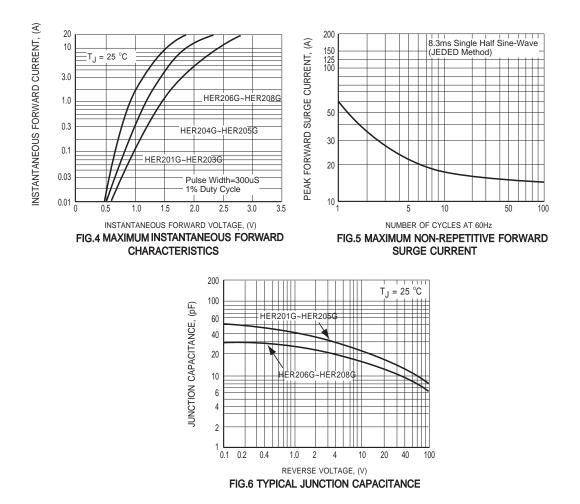
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

RATING AND CHARACTERISTICS CURVES (HER201G THRU HER208G)





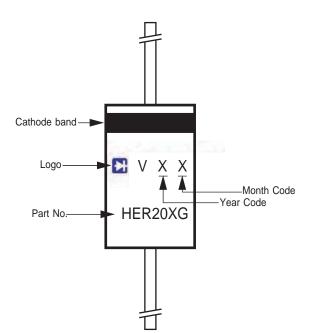
RATING AND CHARACTERISTICS CURVES (HER201G THRU HER208G)





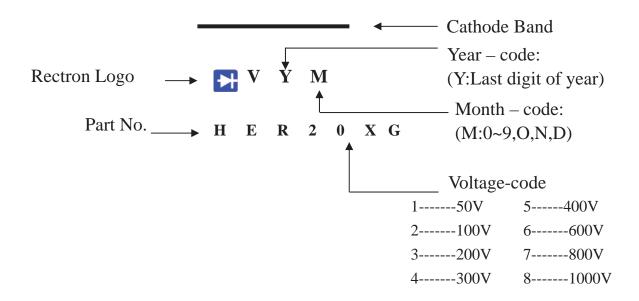
THE MARKING OF HER20XG

Marking Description:





Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKA	GE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-1	5	-B	500	194*84*21	415*220*255	25,000	12.74

eg(TYPE):HER208-B

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-15	-T	4,000	4,000	5.0	52	330	355*350*335	16,000	10.05

eg(TYPE):HER208-T

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-15	-F	1,500	5.0	52	255*73*100	400*268*225	15,000	8.8

eg(TYPE):HER208-F

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